INTERNATIONAL SEARCH REPORT

PCT/GB2004/001446

	والمراجع	_		
A. CLASSII IPC 7	FICATION OF SUBJECT MATTER C12N9/16 G06F17/50			
According to	o International Patent Classification (IPC) or to both national classific	ation a	nd IPC	
B. FIELDS	SEARCHED			
	cumentation searched (classification system followed by classification C12N G06F	on syn	nbols)	
Documentat	tion searched other than minimum documentation to the extent that a	such de	ocuments are included in the fields se	erched
Electronic di	ata base consulted during the international search (name of data be	se and	L where practical, search terms used)
EPO-In	ternal, BIOSIS, EMBASE, WPI Data			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the re-	levant	passa g as	Relevant to daim No.
A	DENU ET AL: "Specific and reversinactivation of protein tyrosine phosphatases by hydrogen peroxide Evidence for a sulfenic acid into and implications for redox regulations for redox regulations and implications for redox regulations for redox redo	e: erme atic	diate [.] n"	1-8,11, 13-46, 84-94
X Furt	ther documents are listed in the continuation of box C.		Patent family members are listed	in ennex.
"A" docume consider to docume which citation "O" docume other to docume inter ti	ent which may throw doubts on priority dalm(s) or its clad to establish the publication date of another on or other special reason (as specified) ent retenting to an oral disclosure, use, exhibition or means ent published prior to the international filling date but than the priority date claimed	'X' (ater document published after the intro- or priority date and not in conflict with cited to understand the principle or the invention occurrent of particular relevance; the cannot be considered novel or cannot involve an inventive step when the do- locument of particular relevance; the cannot be considered to involve an in- document is combined with one or mants, such combination being obvio in the art.	the application but early underlying the obtained invention to considered to comment is taken alone desired invention ventive step when the one other such docu- us to a person skilled termity
	actual completion of the international search 9 September 2004		Date of inaling of the international sea	erch report
Name and	mailing address of the ISA European Patent Office, P.B. 5618 Patentiaan 2 NL - 2280 HV Rijswijk Tal. (+31-70) 340-2040, Tx. 31 651 epo ni,		Mithorized officer Konsner S-F	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to ctalm No. P,X SALMEEN ET AL: "Redox regulation of 1-8,11, protein tyrosine phosphatase 1B involves a 13-46. sulphenyl-amide intermediate" 84-94 NATURE, vol. 423, 12 June 2003 (2003-06-12), pages 769-773, XP002298318 * See the whole document (the same Cys-215 modification); note the PDB references 10EM and 10EO (release date = 12.06.03) on page 773 *P,X VAN MONTFORT ET AL: "Oxidation state of 1-8,11, the active-site cysteine in protein 13-46, tyrosine phosphatase 18" 84-94 NATURE, vol. 423, 12 June 2003 (2003-06-12), pages 773-777, XP002298319 * A disclosure by the inventors; note the PDB references 10ES, 10ET, 10EU and 10EV (release date = 12.06.03) on page 777) * TAYLOR ET AL: "Potent non-peptidy1 L 1-8,11, inhibitors of protein tyrosine phosphatase 13-46. 84-94 1B" BIOORGANIC ET MEDICINAL CHEMISTRY vol. 6, 1998, pages 1457-1468, XP000990565 * See the different types of inhibitors * TAYLOR: "Inhibitors of protein tyrosine 1-8,11, phosphatase 1B (PTP1B)* 13-46, CURRENT TOPICS IN MEDICINAL CHEMISTRY, 84-94 vol. 3, 2003, pages 759-782, XP009013861 * Late-published review but most references are prior art -> see the different types of inhibitors *

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Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nition, the international search was carried out on the basis of:
	a.	type of material
		X a sequence listing
		table(s) related to the sequence listing
	b.	format of material
ĺ		X in written format
ļ		In computer readable form
İ		
•	C.	time of filing/turnishing
ļ		contained in the international application as filed
İ		filed together with the international application in computer readable form
1		X furnished subsequently to this Authority for the purpose of search
ĺ.	X	
2.	لثا	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the
1		application as filed or does not go beyond the application as filed, as appropriate, were furnished.
İ		
3.	Addi	tional comments:
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Box II Observations where certain claims were found unsearchable (C ntinuati n of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
2. X Claims Nos.: 9-10,12,47-83 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of Invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although Claims 13-22, 44-46, 82-83 are (at least implicitly) directed to a method of treatment, the search has been carried out and based on the alleged effects of the compounds.

Continuation of Box II.2

Claims Nos.: 9-10,12,47-83

Claims 9-10,12,47-83 relate to compounds defined by reference to a desirable property.

The Application does not provide technical support for a single inhibitor - but only lists a large number of possible structures.

The statement in Claim 47 ("A novel compound per se...") is irrelevant and also disregards the fact that any compounds must be inventive too. Similarly, the reference to a certain structure (3D) is by no means a sufficient disclosure of useful compounds.

These claims are therefore considered as desiderata and no search has been made. Nonetheless, two L-documents have been included for information.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.